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PN - JP11013640 A 19990119

TI - OIL PUMP STRUCTURE

AB - PROBLEM TO BE SOLVED: To decrease the generation of a moment due to offset in the axial direction of a contact point between the internal part rotary member of an oil pump and the rotation drive member thereof and improve durability of an internal rotation member and a bush for the internal rotation member.

- SOLUTION: An oil pump structure is formed such that a protrusion part 2a formed in the peripheral symmetrical position of the sleeve 2 of the torque converter is inserted in a key groove formed in the peripheral direction-symmetrical position of the inner rotor of an oil pump. In this case, a circular arc is formed in the two end faces in the rotation direction of the protrusion part 2a of the sleeve 2 and offset in the axial direction of a contact point between two members occurring during decentering of the central axes of an inner rotor and the sleeve.

I - F04C2/10

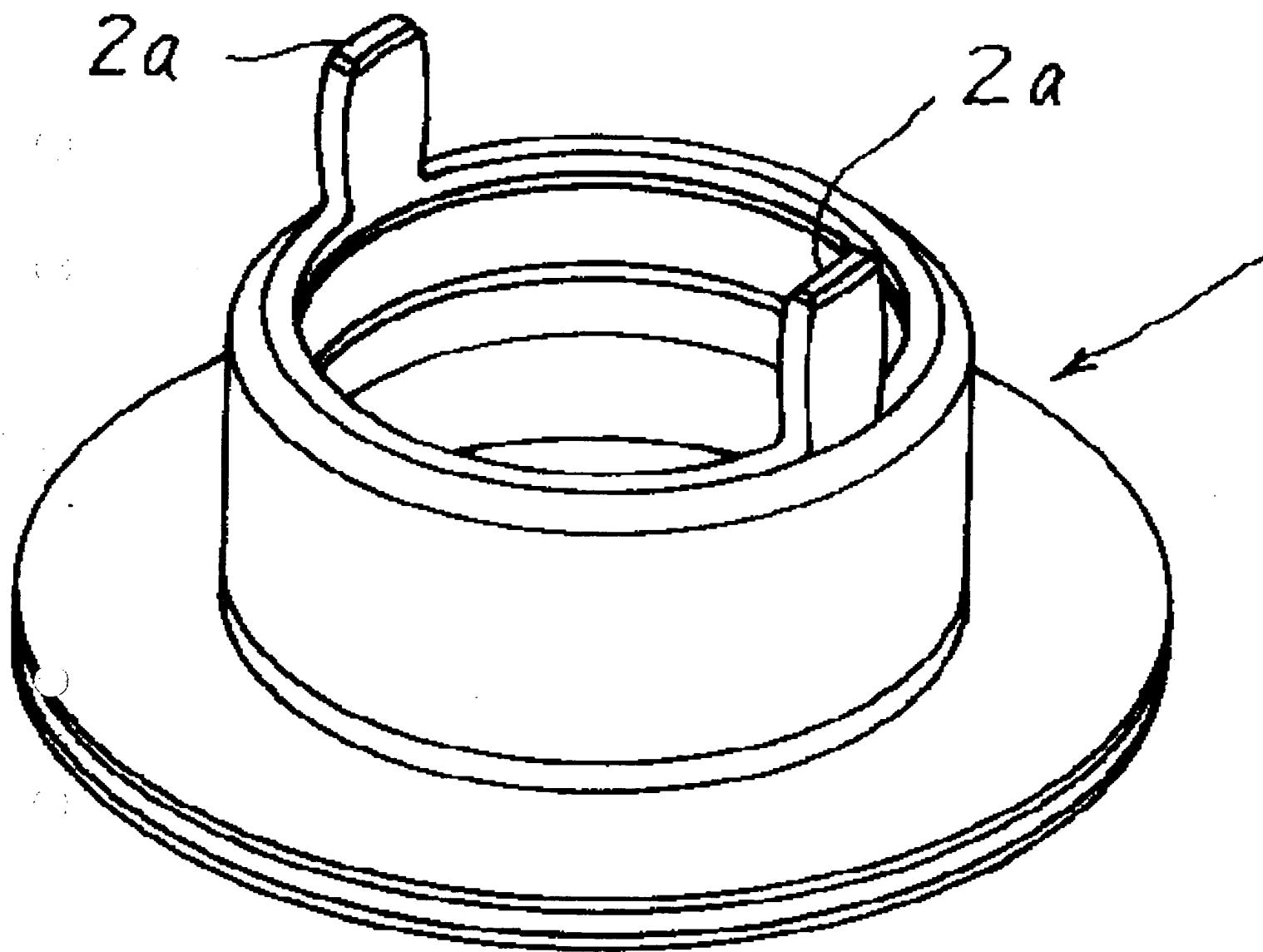
PA - NISSAN MOTOR CO LTD

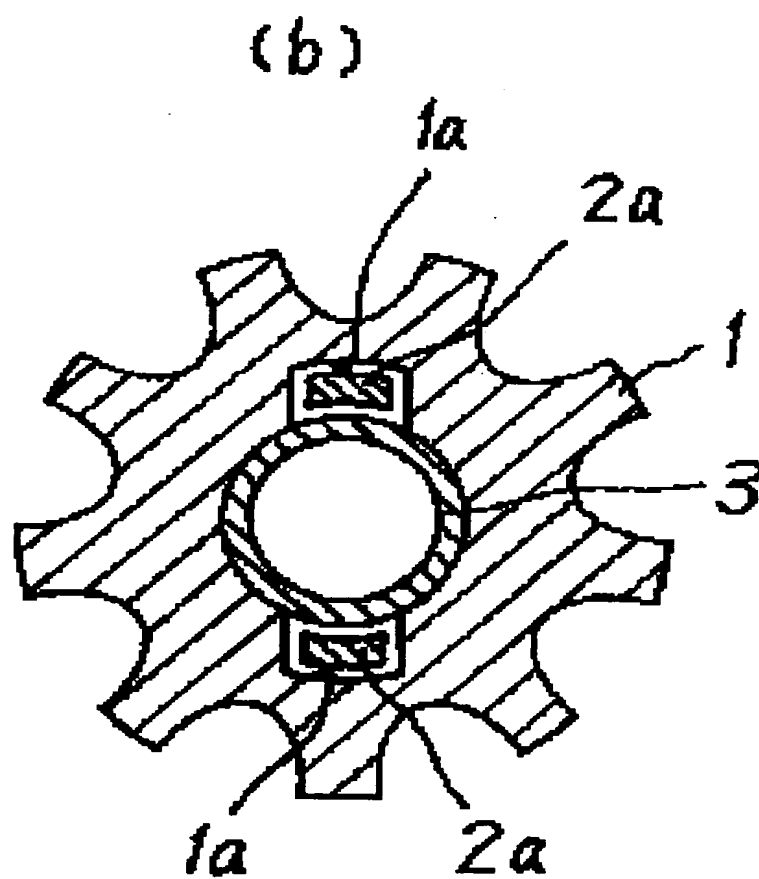
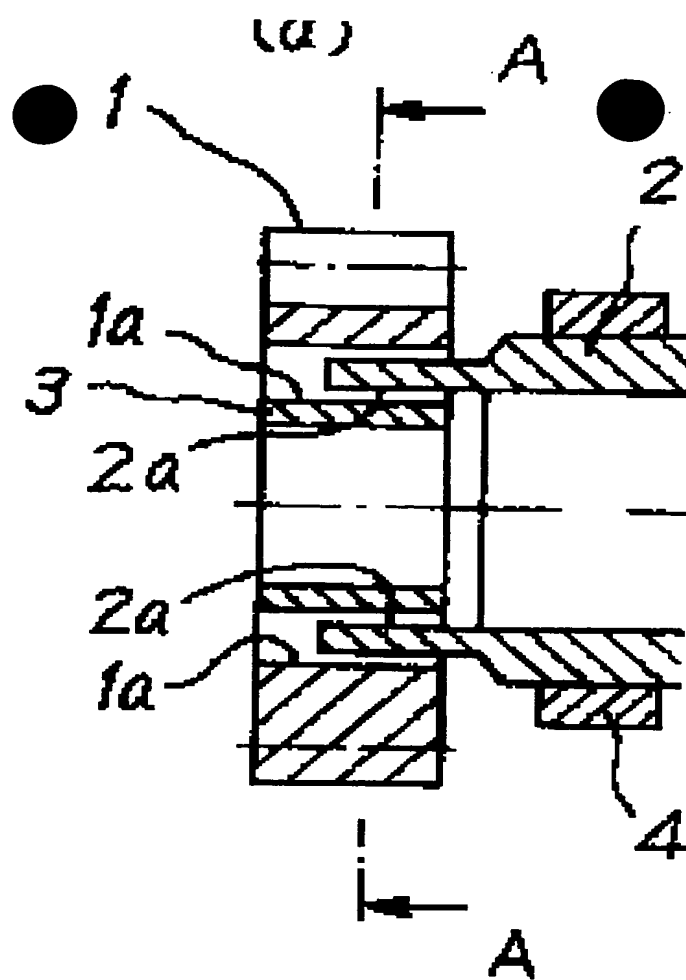
IN - KOYAMA TAKAO

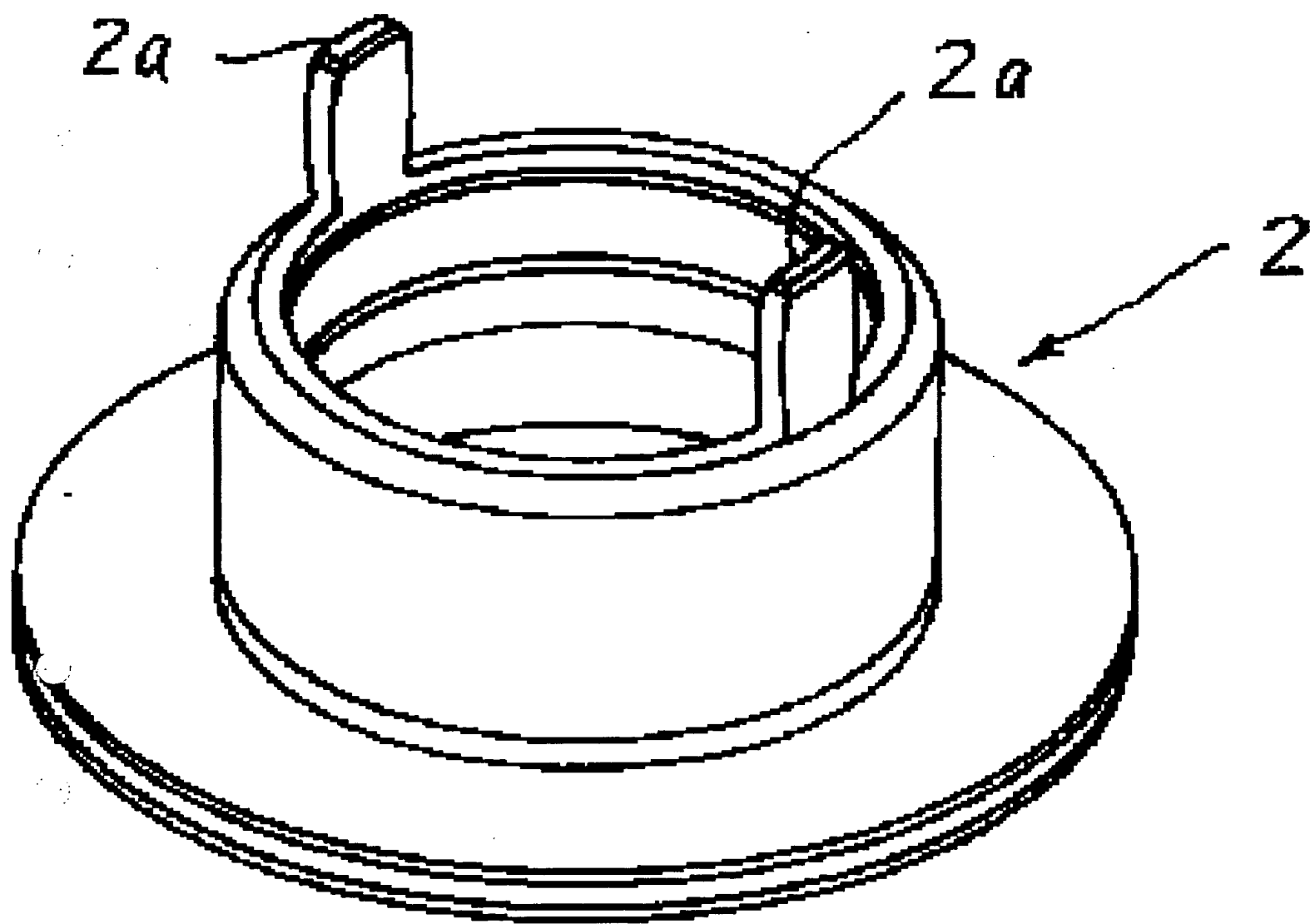
ABD - 19990430

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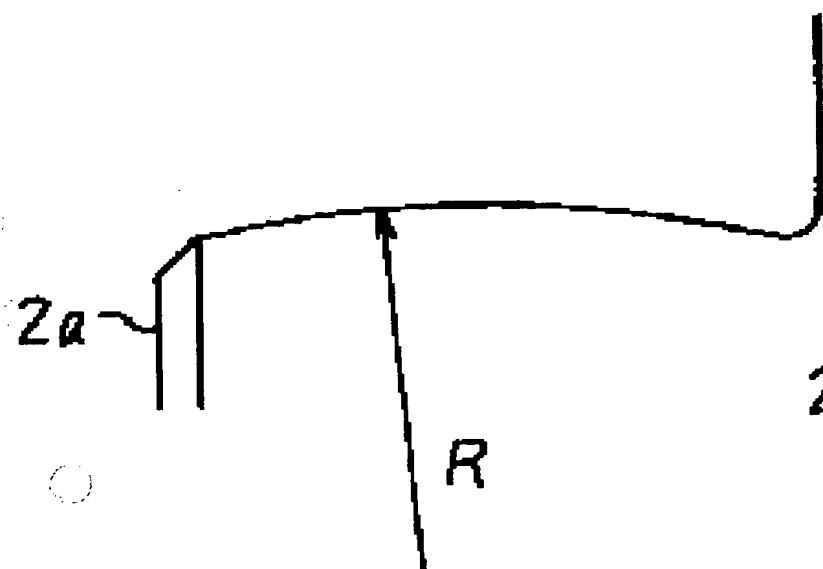
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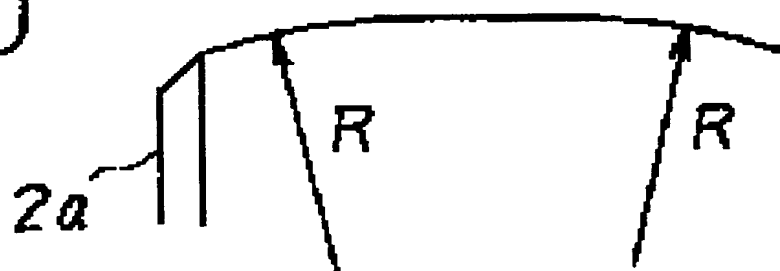




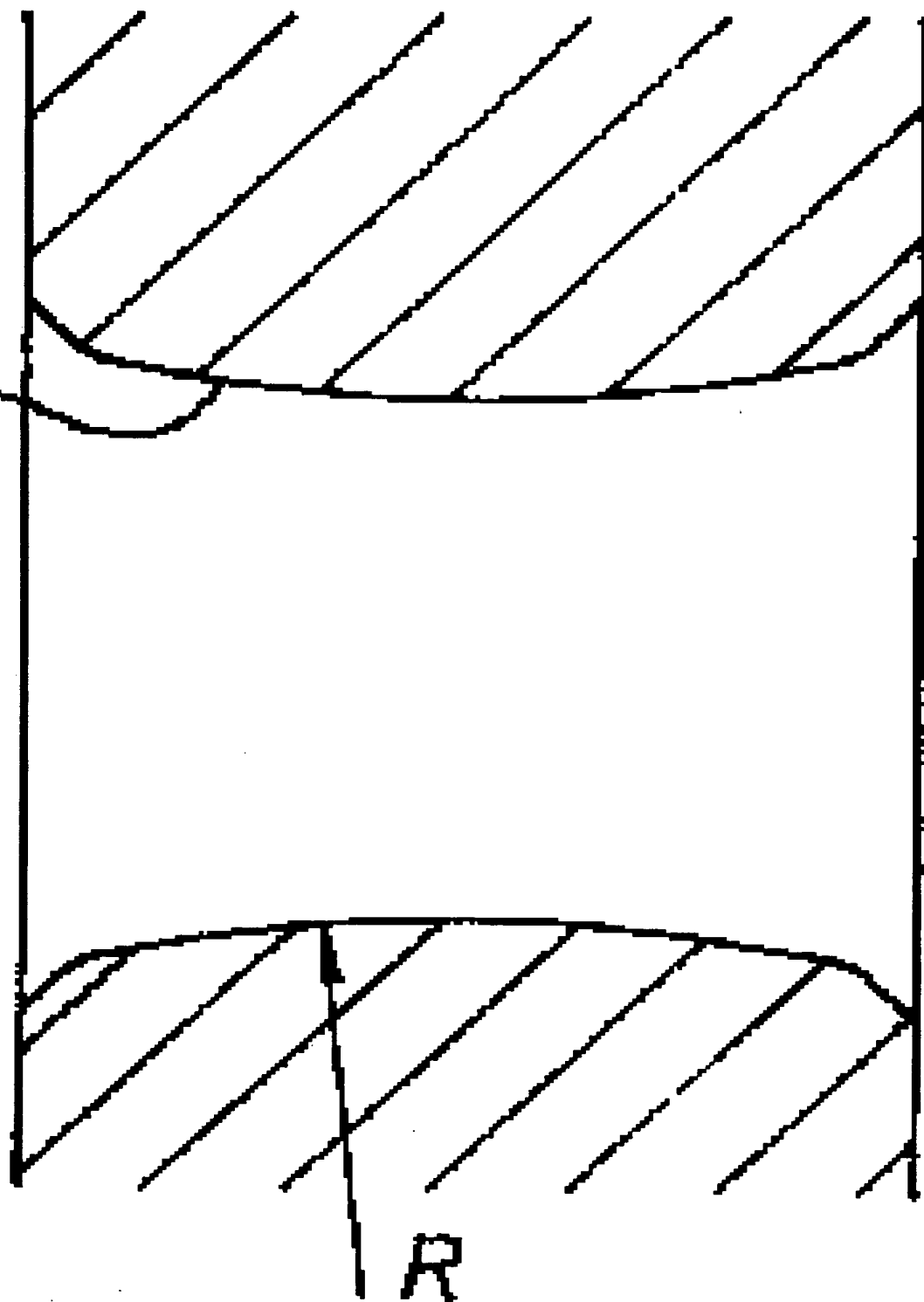
(a)

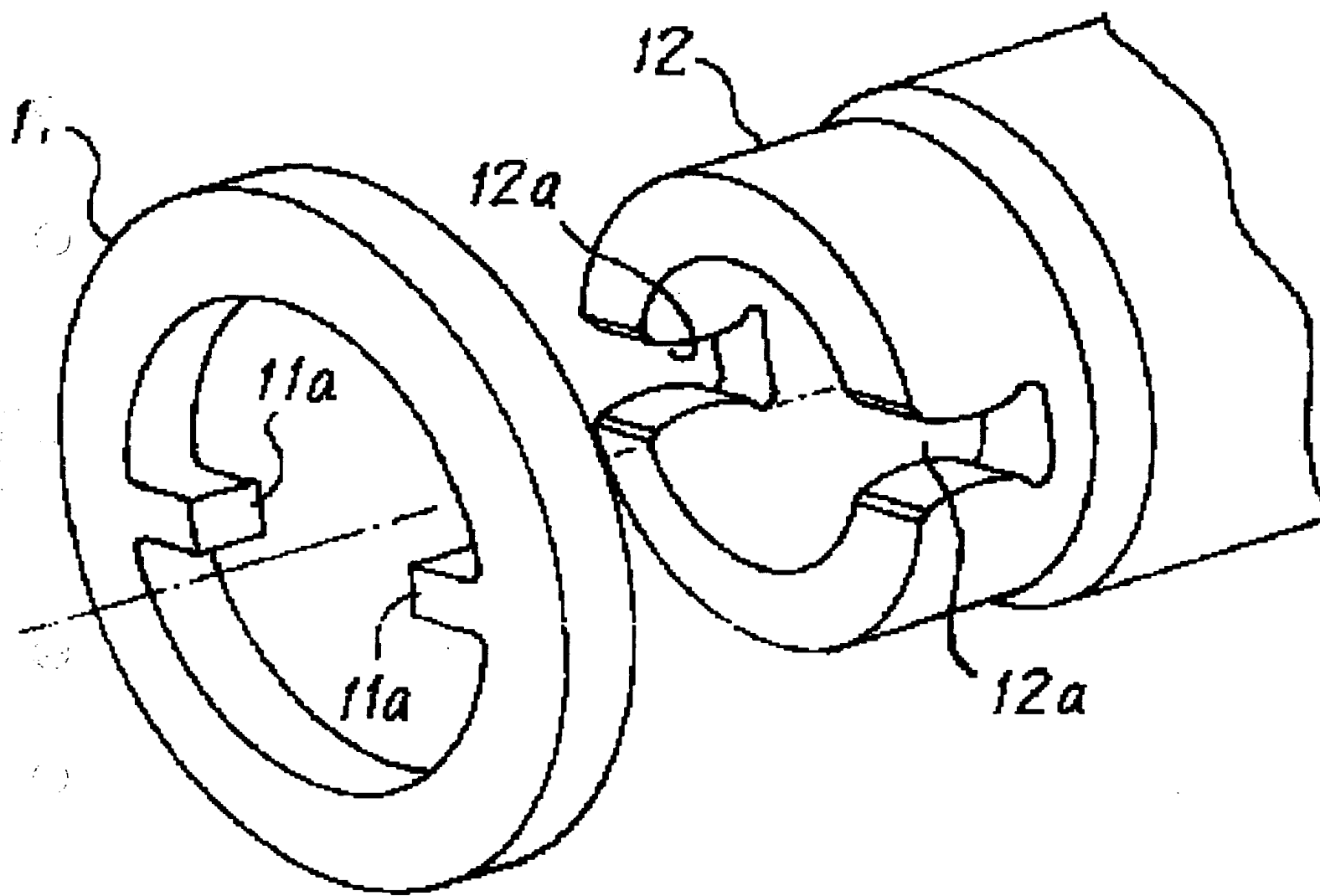


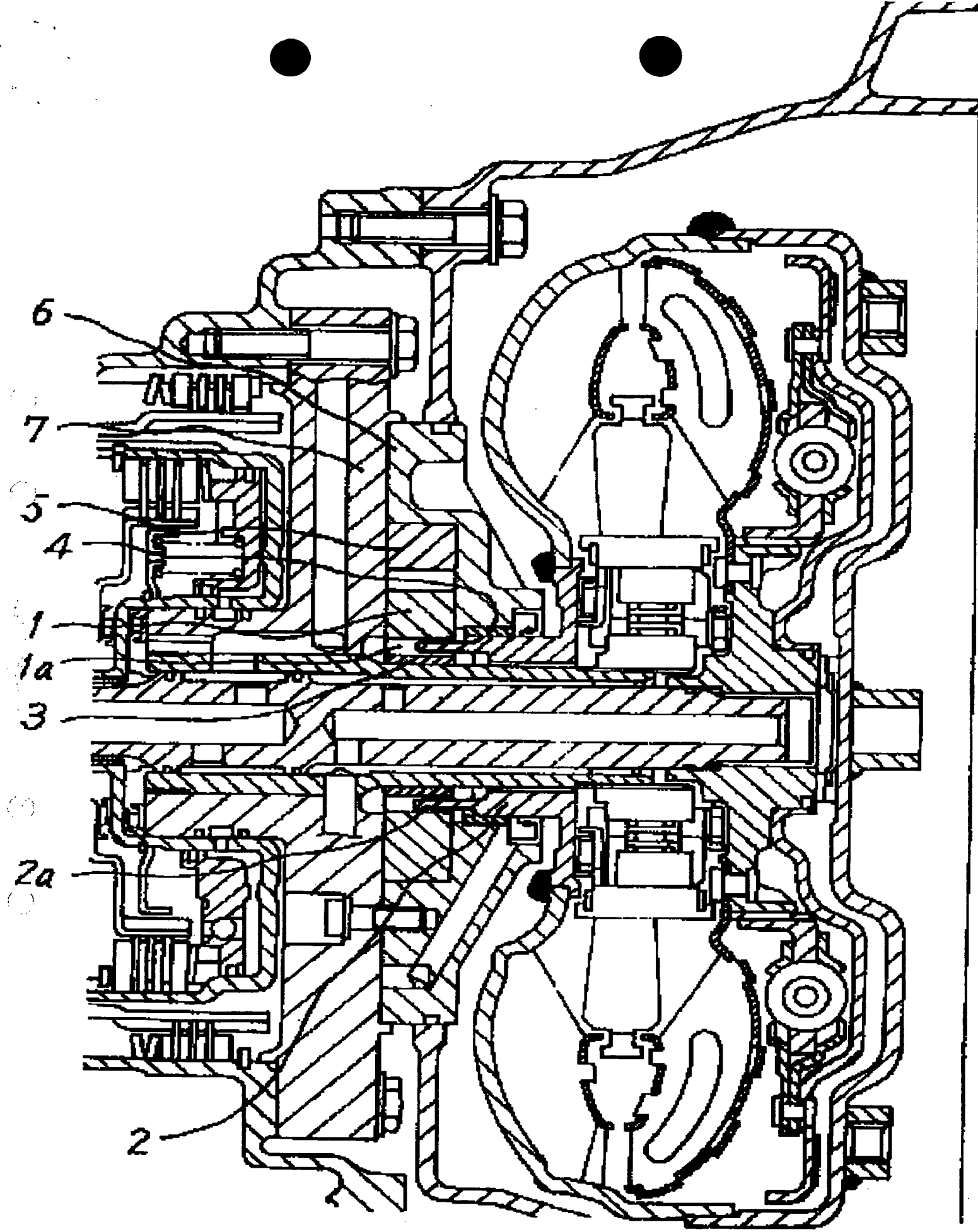
(b)



1a

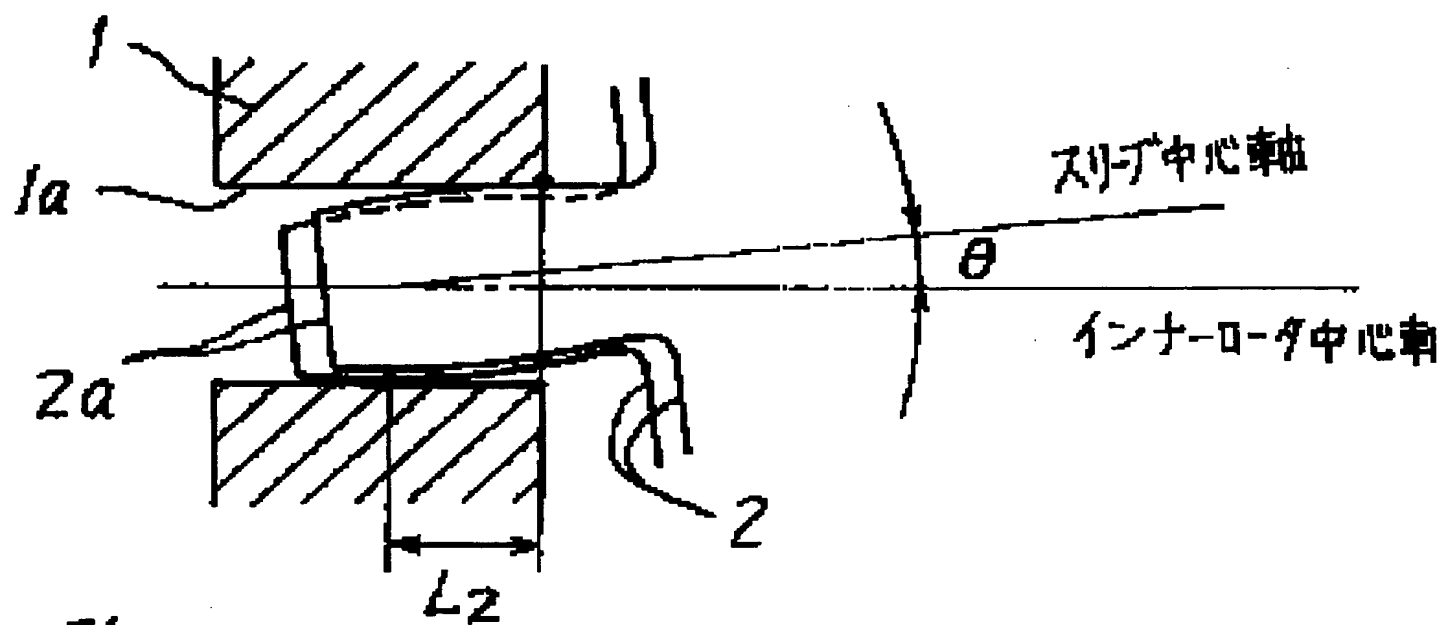




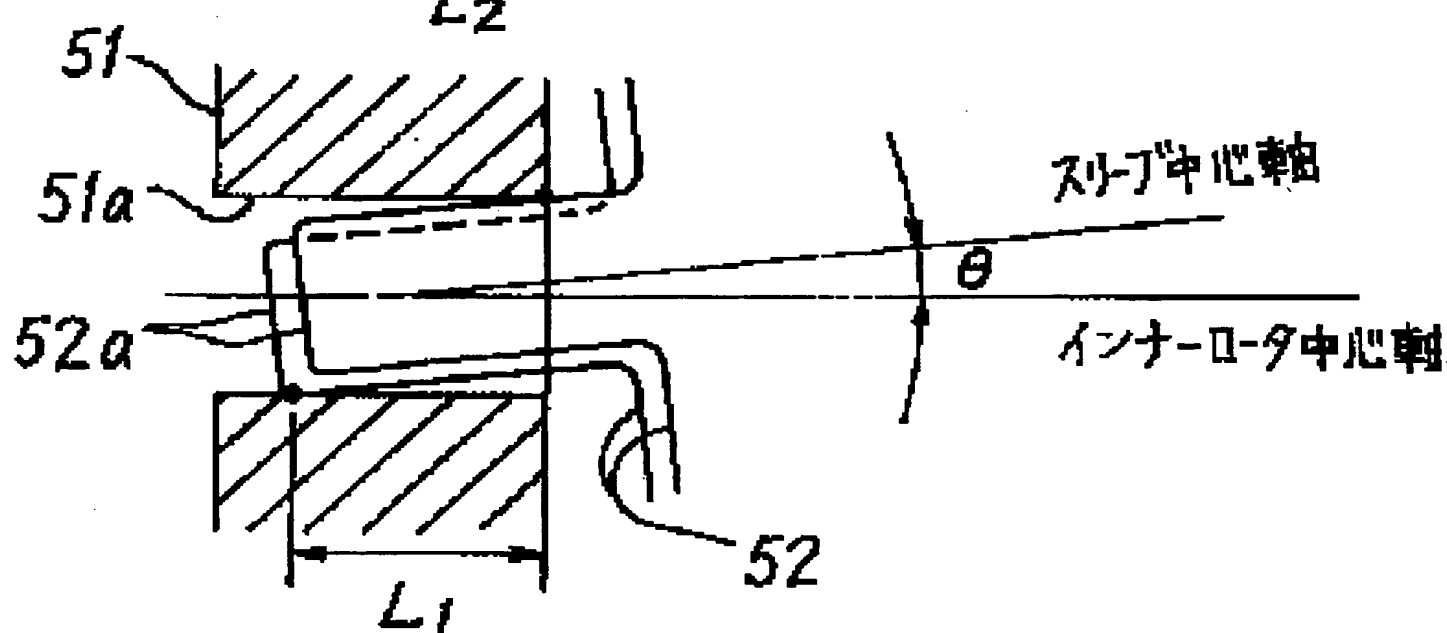




(a)



(b)



(a)

↓ 吐出圧 (入力一定)

インナーギア

インナーギアブッシュ

ステータシャフト

クリアランス

$P$  (クサビ圧)



$F_1$

(b)

↓ 吐出圧 (入力一定)

インナーギア

インナーギアブッシュ

ステータシャ

クリアランス

$P$  (クサビ圧)

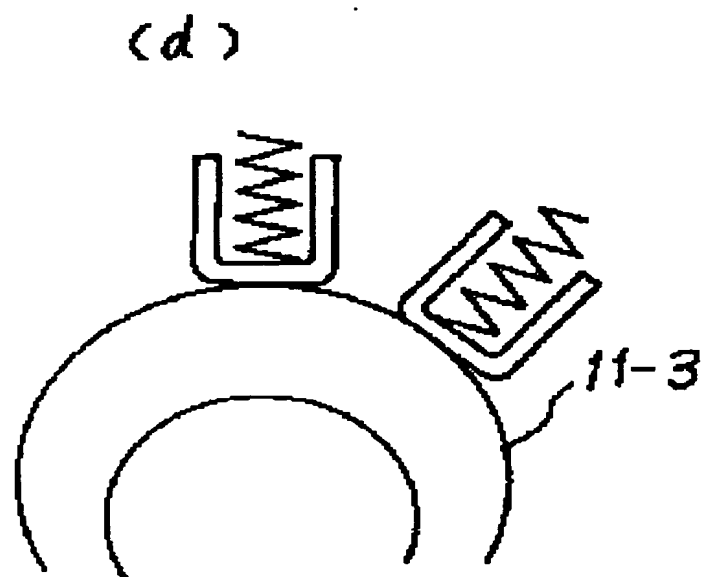
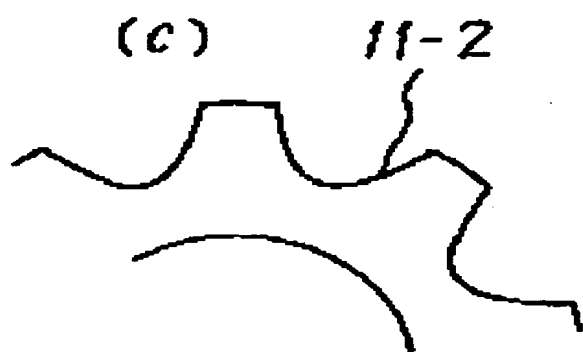
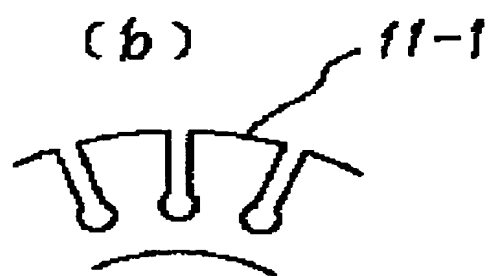
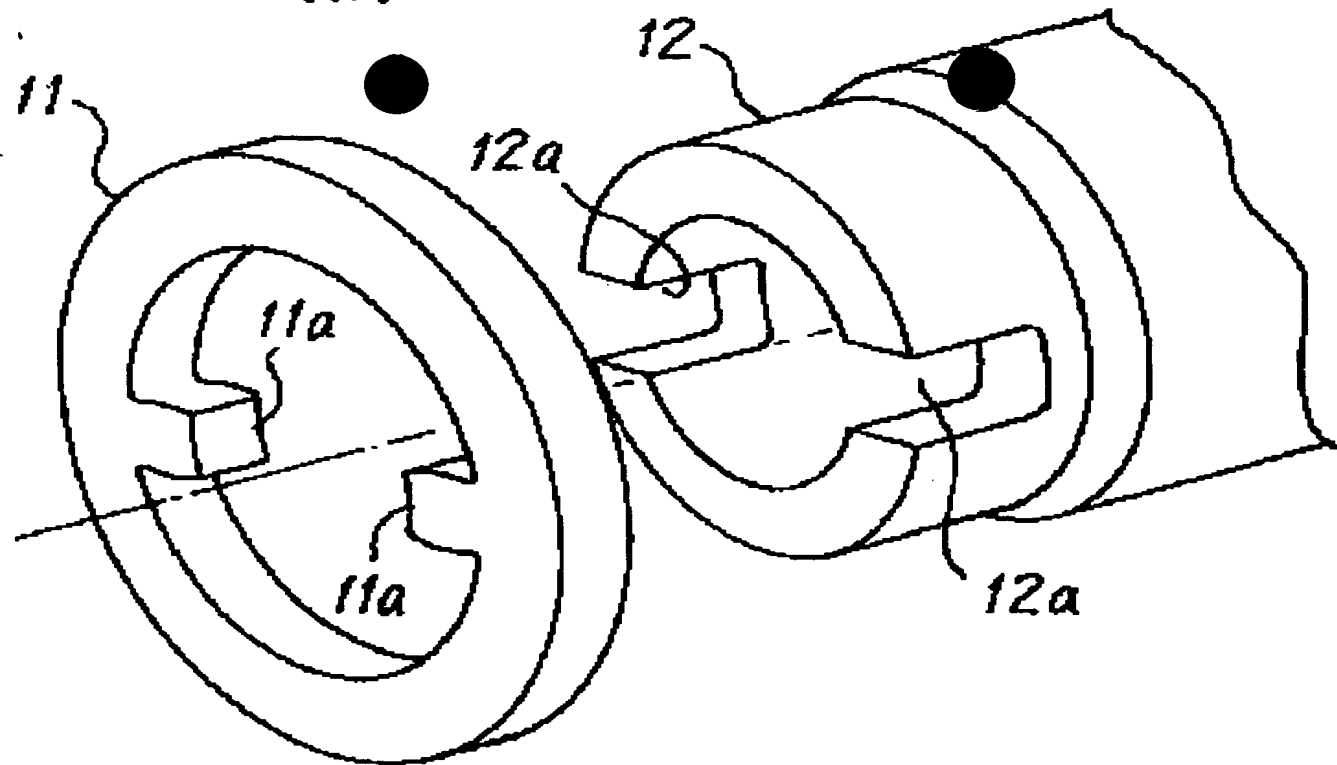


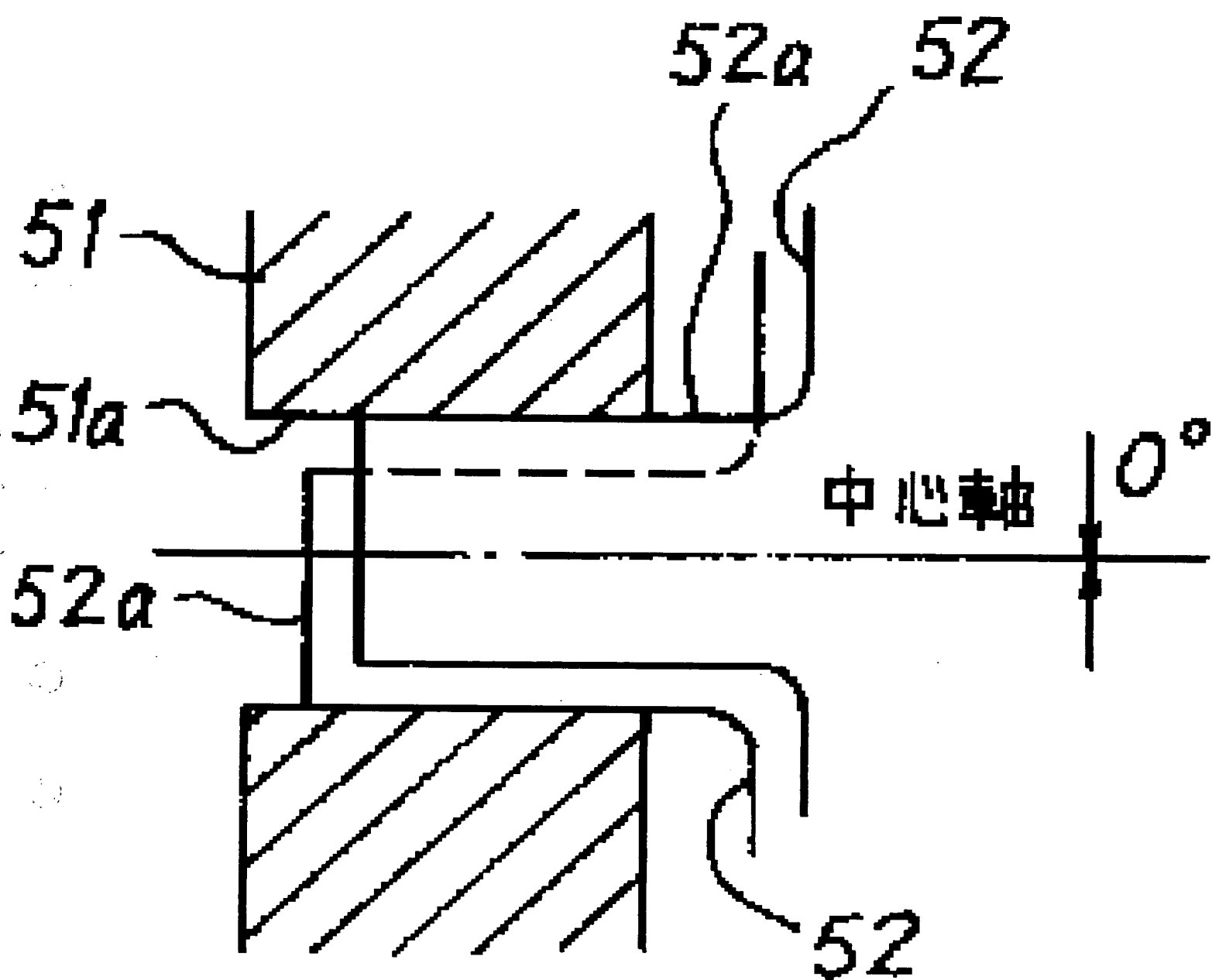
$F_2$

(c)

(d)

(e)





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